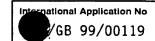


(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference IP 14373	FOR FURTHER See Noti ACTION	ication of Transmittal (CT/ISA/220) as well as	of International Search Report s, where applicable, item 5 below.
International application No.	International filing date (day/month/)	rear) (Earliest) F	Priority Date (day/month/year)
PCT/GB 99/00119	14/01/1999		15/01/1998
Applicant			
AMORNTATKUL, Noppadol et	al		
This International Search Report has bee according to Article 18. A copy is being tr	n prepared by this International Searcl ansmitted to the International Bureau.	ning Authority and is tr	ansmitted to the applicant
	of a total of3 shee a copy of each prior art document cite		
Basis of the report			
 a. With regard to the language, the language in which it was filed, un 	international search was carried out o less otherwise indicated under this iter	n the basis of the inter n.	national application in the
the international search w Authority (Rule 23.1(b)).	as carried out on the basis of a transla	tion of the internation	al application furnished to this
b. With regard to any nucleotide ar was carried out on the basis of th	nd/or amino acid sequence disclosed e sequence listing:	in the international ap	plication, the international search
	onal application in written form.		,
	emational application in computer read	able form.	
	this Authority in written form.		
	this Authority in computer readble for		
international application a	osequently furnished written sequence is filed has been furnished.	listing does not go be	yond the disclosure in the
the statement that the info fumished	ormation recorded in computer readab	e form is identical to the	he written sequence listing has been
	nd unsearchable (See Box I).		
3. Unity of invention is lac	king (see Box II).		
4. With regard to the title ,			
the text is approved as su	bmitted by the applicant.		•
the text has been establis	shed by this Authority to read as follow	3 :	
	ibmitted by the applicant.		
the text has been establis within one month from the	thed, according to Rule 38.2(b), by this address of mailing of this international se	Authority as it appear earch report, submit co	rs in Box III. The applicant may, omments to this Authority.
6. The figure of the drawings to be pub	lished with the abstract is Figure No.		5
as suggested by the appl			None of the figures.
because the applicant fail			
because this figure better	characterizes the invention.		





A. CLASSIFICATION OF SUBJECT MATTER IPC 6 B21J5/08 B21F5/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 $\begin{array}{ccc} \text{Minimum documentation searched} & \text{(classification system followed by classification symbols)} \\ IPC & 6 & B21J & B21F & E04C \\ \end{array}$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUM	ENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	FR 2 653 809 A (TECHNIPORT SA) 3 May 1991	1-11, 13-16, 20-27
	see page 4, line 14 - page 5, line 23; figures 1,4	20-27
X	DE 197 19 578 A (DAVUM CONSTRUCTION S A) 2 January 1998	1-6, 14-16, 20,26
	see column 2, line 17 - line 29; claim 1; figures	20,20
Α	GB 2 286 782 A (CCL SYSTEMS LTD) 30 August 1995 see claim 1	1,15
	_/	1

X Further documents are listed in the continuation of box C.	χ Patent family members are listed in annex.
 Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed 	 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search 11 May 1999	Date of mailing of the international search report 25/05/1999
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Barrow, J
1 an (101 10) 010 0010	

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International Application No FGB 99/00119

Category °	ation) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Jaiogory	Citation of document, with indication, where appropriate, of the relevant passages	rielevant to claim NO.
A	PATENT ABSTRACTS OF JAPAN vol. 017, no. 443 (M-1463), 16 August 1993 & JP 05 098741 A (TOKYO TEKKO KK;OTHERS: 01), 20 April 1993 see abstract	1-11, 13-16, 20,26
A	US 5 660 594 A (VILJAKAINEN KARI) 26 August 1997	

1

Info

GB 99/00119

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
FR 2653809	Α	03-05-1991	NONE	
DE 19719578	Α	02-01-1998	NONE	
GB 2286782	A	30-08-1995	AU 693850 B AU 1668495 A CA 2183446 A EP 0745011 A WO 9522422 A JP 9508858 T NZ 279527 A US 5776001 A	09-07-1998 04-09-1995 24-08-1995 04-12-1996 24-08-1995 09-09-1997 26-02-1998 07-07-1998
US 5660594	A	26-08-1997	AT 178236 T AU 4072493 A DE 69324277 D EP 0739256 A FI 930479 A WO 9324257 A RU 2100128 C	15-04-1999 30-12-1993 06-05-1999 30-10-1996 02-12-1993 09-12-1993 27-12-1997